

SHKOL'NIK, V.

Electronic hardness gauge. V pom. radioliub. no.11:32-42 '61.
(MIRA 15:6)
(Hardness--Measurement) (Electronic apparatus and appliances)
(Measuring instruments)

SHKOL'NIK, V.M., inzh.

Portable four-channel tensiometer. Izv. vys. ucheb. zav.; gor. zhur.
no.11:108-116 1959. (MIRA 14:5)

1. Sverdlovskiy radiotekhnicheskiy tekhnikum imeni A. S. Popova.
Rekomendovana kafedroy gornoj elekrotekhniki Sverdlovskogo
gornogo instituta. (Tensiometers)

| 8000

30890
S/118/61/000/012/002/003
D221/D305

AUTHOR: Shkol'nik, V.M., Engineer

TITLE: An automatic instrument for quality control of
heat treatment of steel components

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva,
no. 12, 1961, 36-40

TEXT: The author describes an automatic unit which he developed. It uses the non-destructive method of structure control and also the related hardness of steel components. The author directed the work on the electronic part, whereas the mechanical section was made by the 6th Gosudarstvennyy podshipnikovyy zavod (6th State Ball-bearing Factory), where it was tested. Its operating principle is based on the relationship between the magnetic and electric properties of a substance and its chemical composition as well as crystallographic structure.

Card 1/4

30890
S/118/61/000/012/002/003
D221/D305

An automatic instrument ...

The hardness of component depends on the latter. The automatic control consists of measuring the magnetic permeability, to which hardness is related, by comparing to a standard. This is achieved with two inductors, whose cores are formed by the standard and the specimen. Their coils are connected to a bridge. The unbalance voltage is proportional to the difference in their permeability (and, thus, hardness). The phase of output voltage is related to the hardness of the specimen. The bridge feeds a three-cascade amplifier, the last stage being phase sensitive. The anodes are connected to signal lamps and solenoids of the sorter. A detailed description is given of the operation of this automatic sorter. The supply is ensured by two rectifiers. One is based on germanium diodes and voltage stabilizing valves. The other circuit incorporates germanium diodes and provides the low voltage for solenoids and counters. The input of the bridge is balanced by a valve voltmeter. When the active and reactive components of the input

Card 2/4

30890
S/118/61/000/012/002/003
D221/D305

An automatic instrument ...

are balanced, then the output current in the milliammeter is zero. This produces two opposite currents in the output which cancel each other. In the case of differences in hardness, there is a voltage generated in the secondary of the transformer, and a differential current will pass through the instrument. The change in the sign of hardness of the specimen, as compared to the standard, causes a phase shift in the output. This is compared in a phase displacement of 45° obtained by the condenser divider. The automatic unit comprises a hopper which feeds rollers at certain intervals along a tube, and into the transducer. The sorting device is mounted underneath the latter. It separates components into three categories: good, too soft and too hard. The sleeve of the transducer is provided with slots, where lags for component rejection are placed. Application of interchangeable blocs of transducers and the feed system permit a rapid resetting for other types of workpieces. The present

X

Card 3/4

An automatic instrument ...

30890
S/118/61/000/012/002/003
D221/D305

output of 2000/hrs can be increased to 5-6000, by changing the time constant of the grid circuit of the electronic time relay. In addition the feeding and disposition of the lags (gates) in the scorter should also be adjusted. Tests proved that the unit operates reliably. The indications are not related to the diameter or height of components within the permitted limits. Some errors are introduced by the scatter of chamfer sizes. There are 3 figures. X

Card 4/4

SHCHEKNIK, V.M., inzh.

Automatic unit for controlling the quality of the heat treatment of
steel parts. Mekh. i avtom.proizv. 15 no.12:36-40 D '61.
(MIRA 14:12)

(Steel--Heat treatment) (Automatic control)

SKOLNIK, V.M. [Shkol'nik, V.M.]

An automatic machine for controlling the quality of the thermal treatment of steel castings. Analele metalurgie 16 no.3:159-167 Jl-S '62.

SHKOL'NIK, V.M., inzh.

Use of four-terminal networks for balancing the input bridges of
tensiometer amplifiers. Izv. vys. ucheb. zav.; gor. zhur. 6
(MIRA 16:7)
no. 4:144-157 '63.

1. Sverdlovskiy radiotekhnicheskiy tekhnikum imeni Popova.
Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov.
(Amplifiers (Electronics)) (Tensiometers)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8

SPRINGFIELD, MASS., INZN.; KALINOV, RUD., INZN.; BAGOV, VAS., INZN.; SHKOLNIK,
YEVGEN., INZN.

Biocatalysis of reacting sugar products with superoxide dismutase.
USSR, trad. Ukr. inven-torial. inst. pr. stran. no. 10:72-26
(BIRZ 17:10)
163.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8"

SHEVCHIK, Yu. G.; TOLSTOY, A.F.; PILYUGIN, G.T.

Pyridine bases of brown coal tar in Transcarpathia. Ukr. khim. zhur. 30 no.7:731-733 '64 (MIRA 18:1)

I. Chernovitskiy gosudarstvennyy universitet.

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 148

TOPIC TAGS: ultrasonic flaw detection, ~~ultrasonic quality control, water containing contact liquid~~, ^{OR} ~~liquid composition, rough machined surface inspection~~

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549710006-8

ABSTRACT: This Author Certificate introduces a liquid medium for ultrasonic detection. To assure effective quality control, especially in inspection of rough surfaces, the liquid contains 0.8—2.0% polyacrylamide, 0.4—1.0% sodium nitrate and 97—98.8% water. [WW]

SUB CODE: 11,13/ SUBM DATE: 22Nov65/ ATD PRESS: 5110

Card 1/1

UDC: 620.179.16

L 52097-65 EPF(c)/EPR/EWP(j)/EWT(m)/T/EWP(v) Pc-4/Pr-4/Ps-4 WW/RM

ACCESSION NR: AP5015266

UR/0286/65/000/009/0048/0048

29

AUTHORS: Dombrovskiy, A. V.; Shkol'nik, Ya. Sh.; Shkol'nik, R. S.

B

TITLE: Cementing composition based on aqueous solution of polyacrylamide.

Class 22, No. 170601

SOURCE: Byulleten' izobreteniya i tovarnykh znakov, no. 9, 1965, 48

TOPIC TAGS: cement, plywood, polyacrylamide, hydrochloric acid, ammonium compound

ABSTRACT: This Author Certificate presents a cementing composition based on an aqueous solution of polyacrylamide and used in producing plywood sheets. To increase the strength of cemented plywood joints, a mixture of uretropine and a mineral acid (for instance, hydrochloric acid) or a solution of free aldehyde and an acid salt (ammonium chloride) is added to the aqueous solution of polyacrylamide.

ASSOCIATION: none

SUBMITTED: 14Oct63

ENCL: 00

SUB CODE: GG, MT

NO REF SOV: 000

OTHER: 000

Card 1/1 m/s

SHKOL'NIK, YE. F.

DANILOVA, M.K.; IVANOVA, N.M.; KALININ, T.V.; PERELYGINA, L.I.; SALMANOVA,
Ye.S.; SHKOL'NIK, Ye.I.; SHLEYFMAN, Kh.I.; STOLYAROVA, A.I., red.;
SERADZSKAYA, P.G., tekhn.red.

[Economy of Voronezh Province; a statistical manual] Narodnoe
khoziaistvo Voronezhskoi oblasti; statisticheskii sbornik. [Voronezh]
Voronezhskoe knizhnoe izd-vo, 1957. 139 p. (MIRA 11:3)

1. Voronezh (Province). Statisticheskoye upravleniye. 2. Statisti-
cheskoye upravleniye Voronezhskoy oblasti (for all, except Stolyarova,
Seradzskaya). 3. Nachal'nik Statisticheskogo upravleniya (for
Stolyarova)
(Voronezh Province--Statistics)

IVANOVA, N.M.; KOZHINA, A.D.; PERELYGINA, L.I.; TARASOVA, V.A.;
FURSOVA, Ye.I.; CHEREZOVA, R.S.; SHKOL'NIK, Ye.I.; SHLEYFMAN,
Kh.I.

[Economy of Voronezh Province in 1960; collection of statistics]
Narodnoe khoziazstvo Voronezhskoi oblasti v 1960 godu; statisti-
cheskii sbornik. Voronezh, Voronezhskoe otd-nie Gosstatizdata,
1961. 139 p. (MIRA 15:6)

1. Voronezh. Oblastnoye statisticheskoye upravleniye.
(Voronezh Province---Economic conditions)

SHKOL'NIK, Ye.S.

Improving drawing instruction in secondary schools. Politekh.
obuch. no.1:56-57 Ja '59. (MIRA 12:2)

1. Leningradskoye khudozhestvenno-graficheskoye pedagogicheskoye
uchilishche. (Mechanical drawing--Instruction)

SHKOL'NIK-YARROS, YE. G.

Shkol'nik-Yarros, Ye. G. "Motor disturbances in injuries to the posterior zone following military brain traumas", In the collection: *Nevrologiya voyen. vremeni*, Vol. 1, Moscow, 1949, p. 189-202.

SD: U-H11, 17 July 1953, (*Letopis' Zhurnal'nykh Statey*, no. 20, 1949)

ZVORYKIN, V.P.; SHKOL'NIK-YARROS, Ye.G.

Numerical data on the relationship of the peripheral part of the visual
analysors to cerebral ends of the analysors in a number of vertebrates.
Arkh. anat., Moskva 30 no.5:43-47 Sept-Oct 1953. (CIML 25:4)

l. Of the Institute of the Brain (Director -- Prof. S. A. Sarkisov, Ac-
tive Member AMS USSR), Ministry of Public Health USSR.

SHKOL'NIK-YARROS, Ye.G.

Morphology of the visual analyisor. Zhur. vys. nerv. deiat. 4 no.2:
289-304 Mr-Ap '54. (MIRA 7:10)

1. Laboratoriya neyrogistologii Instituta mozga Ministerstva
Zdravookhraneniya SSSR.
(BRAIN, anatomy and histology,
visual center)

SHKOL'NIK-YARROS, Ye.G.

Structure of the cerebral end of the visual analyisor in
Cercopithecidae. Probl. fiziol. opt. 11:162-175 '55. (MLRA 9:6)

1. Laboratoriya neurohistologii Instituta mozga Ministerstva
zdravookhraneniya SSSR.

(CEREBRAL CORTEX, anatomy and histology,
visual area in monkeys (Rus))

EXCERPTA MEDICA SEC 8 Vol 12/2 Neurology Feb 59

745. SOME VARIATIONS OF THE AXO-DENDRITIC CONTACTS IN THE CEREBRAL CORTEX OF ANIMALS (Russian text) - Shkolnik-Yarros E. G. Brain Inst., USSR Acad. of Med. Scis, Moscow - PROBL. MORFOL. NERV. SIST. 1956 (51-58) Illus. 7

The morphologic characteristics of the axo-dendritic connections were studied in the visual area of the cortex in rabbits, dogs and monkeys; the chrome-silver impregnation method was used. The finest structures of axonal and dendritic ramifications representing the synaptic formations of the nerve cells are described, and various types of axonal and dendritic endings. Variations in the mode of contact (enveloping, duplicating, etc.) between axons and dendrites with neighbouring or other cells of the cortex are described. The descriptions are illustrated with microphotographs. The advantages of the chrome-silver impregnation method are stressed, which, together with neurofibrillar methods, may provide suitable material for study of the multiplicity and variability of cortical contacts.

Zhukova - Moscow (S)

SHKOL'NIK-YARROS, Ye.G.

Descending fibers in the visual area of the cortex [with summary in English]. Zhur.vys.nerv.deiat. 8 no.1:123-136 Ja-F '58. (MIRA 11:3)

1. Laboratoriya neyrogistologii Instituta mozga AMN SSSR, Moskva.
(CEREBRAL CORTEX, physiology,
efferent visual fibers (Rus))

SHKOL'NIK-YARROS, Ye.G.

Neuron structure of the visual analysor. Probl.fiziol.opt. 12:⁴²⁹⁻⁴³⁸
'58 (MIRA 11:6)

1. Laboratoriya neyrogistologii Instituta mozga AMN SSSR.
(EYE-- INNERVATION)

SHKOL'NIK-YARROS, Ye.G.

"Quantitative study of the visual cortex" [in German] by Herbert Haug. Reviewed by E.G. Shkol'nik-Yarros. Arkh.anat.gist. i embr. '59. no.1:110-111 Ja '59. (MIRA 12:3)

(CEREBRAL CORTEX)
(VISION)
(HAUG, HERBERT)

SHKOL'NIK-YARROS, Ye.G. (Moskva, G-117, 2-y Truzhennikov per., 4,kv.61)

Neurons of the visual cortex in man. Arkh.anat.gist.i embr. 38 no.2:
24-38 F '60. (MIRA 14:6)

1. Laboratoriya neyrogistologii (zav. - prof. G.I.Polyakov) Instituta
mozga AMN SSSR.
(CEREBRAL CORTEX)

SHKOL'NIK, YANOV, Ye. G.

Some forms of interneuronal connections in the system of the visual
analyzers. Zhur. vys. nerv. deiat. 11 no.4:680-689 Jl-Ag '61.
(MIRA 15:2)

1. Laboratory of Neurohistology, Institute of Brain, U.S.S.R.
Academy of Medical Sciences, Moscow.
(VISION)

SHKOL'NIK YARROS, Ye.G.... (Moskva, G-117, 2-y Truzhenikov per., 4, kv.61)

Structure of the visual analyisor in relation to the problem of color vision. Arkh. anat. gist. i embr. 42 no.2:12-30 F '62. (MIRA 15:2)

1. Laboratoriya nevrogistologii (zav. - prof. G.I.Polyakov). Instituta mozga AMN SSSR.
(VISION) (COLOR SENSE) :

SKREBITSKIY, V.G.; SHKOL'NIK, YARROS, Ye.G.

Representation of the visual analysor in the cerebral cortex. Zhur.
vys. nerv. deiat. 14 no.2:277-286 Mr-Ap '64. (MIRA 17:6)

1. Laboratories of Electrophysiology and Neurohistology, Institute
of Brain, U.S.S.R. Academy of Medical Sciences.

BEL' , T.V.; PORTUGOV, V.V.; SHVODNIK-YAROS, Ye.G.

Structural and histochemical characteristics of the
epus genitulatum laterale in Primates. Zhur. vys. nerv.
deiat. 14 no. 4: 707-713 Jl-Ag '64. (MIRA 17:12)

1. Laboratory of Histochemistry and Neurohistology,
Brain Institute, U.S.S.R. Academy of Medical Sciences,
Moscow.

SHKOL'NIK-YARROS, Ye.G.

Some apparatus of interneuronal connections in the cerebral cortex. Zhur. vys. nerv. deiat. 15 no.6:1063-1071 N-D '65.
(MIRA 19:1)

1. Laboratoriya neyrogistologii Instituta mozga AMN SSSR.
Submitted June 21, 1965.

ACC NR: AM6015332

Monograph

UR/

Shkol'nik-YAross, YEkaterina Grigor'yevna

Neurons and interneuronal connections. Visual analyzer (Neyrony i' mezhneyronnyye svyazi. Zritel'nyy analizator) [Leningrad] Izd-vo "Meditina," 1965. 226 p. illus., biblio. 2200 copies printed.

TOPIC TAGS: neuron, cerebral cortex, vision

PURPOSE AND COVERAGE: The book is devoted to the structure of neurons and interneuronal connections of the visual cortex and the lateral geniculate body in different animals and man. New data are presented concerning the localization of the visual system in the brain cortex. A hypothesis is suggested explaining the morphological basis of color vision in visual centers. The book is intended for physiologists, morphologists, neuropathologists and neurocybernetists.

TABLE OF CONTENTS:

Part I. Introduction -- 3

Ch. I. Neurons of the visual analyzer -- 5
The cortex and the lateral geniculate body --

Card 1/3

UDC: 611.814.4+611.814.7]-018-019

ACC NR: AM6015332

The structure of neurons of the visual cortex and the lateral geniculate body in certain mammals (hedgehog, rabbit, dog, monkey, man) -- 15

The size of neurons and their distribution density --

Peculiarities of layers of the visual cortex -- 19

Similarities and differences of neurons in monkeys and man -- 34

Distinctive structural features of neurons of the 17th, 18th, and 19th occipital areas in man -- 51

Ch. II. Interconnections of neurons and details of their structure -- 99

Endings and branches of axons --

Endings and branches of dendrites -- 103

Differences in connections between cortical neurons and subcortical neurons of the visual analyzer -- 113

Concerning the presence of spines on dendrites, their genesis and function -- 143

The structure of interneuronal connections in the cortex -- 148

Ch. III. Differences in structure and connections of the cortical and subcortical levels of the visual analyzer -- 153

Connections of the pyramidal cells and their significance --

Connections of astrocytes (long-axon Cajal cells) -- 156

Card 2/3

ACC NR: AM6015332

Connections of the short-axon astrocytes and their significance -- 157

Neurons of the lateral geniculate body -- 161

Basic differences of the neurons of the visual cortex and the lateral geniculate body -- 164

Ch. IV. Structure of the visual analyzer and paths of stimulus propagation -- 170

Cervical nucleus of the analyzer and dispersed elements --
Efferent connections of the visual cortex -- 179

Centrifugal connections of the retina -- 192

Diagram of the structure of the visual system -- 195

Ch. V. The specificity of structure of the visual analyzer -- 199

Neuron structure of the visual analyzer compared to other neurons --

Specificity of structure related to the problem of color vision -- 206

Some new data concerning the structure and function of the lateral geniculate body of primates in relation to the problem of color vision -- 213

Bibliography -- 218

SUB CODE: 06/ SUBM DATE: 03Nov65/ ORIG REF: 044/ OTH REF: 130
Card 3/3

REYSLER, Yuriy Veniaminovich; NIKOLAEV, Yuriy Alekseyevich;
SHKOL'NIKOV, A., red.; ROZIN, M., red.; USTINOVA, S.,
tekhn. red.

[Over-all mechanization of pea harvesting] Kompleksnaia me-
khanizatsiia uborki gorokha. Moskva, Mosk. rabochii, 1962.
93 p. (MIRA 15:10)

(Peas—Harvesting)

VOYTOV, Pavel Ivanovich, kand. sel'skokhoz. nauk; ROZIN, M., red.;
SHKOL'NIKOV, A., red.; KUZNETSOVA, A., tekhn. red.

[Machines and attachments for the placement of liquid fertilizers]
Mashiny i prisposobleniya dlja vneseniia zhidkikh udobrenii.
Moskva, Mosk. rabochii, 1963. 85 p. (MIRA 16:6)
(Fertilizer spreaders)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8

SHYOL'NIKOV, A.A.

Railroad car used for giving instruction in electric traction.
Elek. i tepl. tiaga 2 no.3:3 of cover Mr '58. (MIRA 11:4)
(Electric railroads--Study and teaching)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8"

SHKOL'NIKOV, A.A.

Useful equipment for repairing locomotives. Elek. i tepl.tiaga
3 no.5:18-19 My '59. (MIRA 12:9)

1. Starshiy inzhener TSentral'nogo doma tekhniki zheleznodorozh-
nogo transporta.
(Locomotives--Maintenance and repair)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8

SHKOL'NIKOV, A.A., inzh.

Textolite washers for brush holders. Elek. i tepl.tiaga 4 no.2:9
F '60. (MIRA 13:6)
(Electric railway motors)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8"

SHKOL'NIKOV, A.A., inzh.

Pneumatic shears for cutting contact plates of the pantograph,
Elek. i tepl. tiaga 6 no.4;8 Ap '62, (MIRA 15:5)
(Electric railroads--Equipment and supplies)

SHUGAROV, A.I., prof.; SHKOL'NIKOV, A.B., red.; MAKHOVA, N.M., tekhn.
red.; PEVZNER, V.I., tekhn. red.

[Physics] Fizika. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov
i plakatov, 1961. 419 p. (MIRA 15:3)
(Physics)

SPERANOV, Nikolay Nikolayevich; SHKOL'NIKOV, A.B., red.; BALLOD,
A.I., tekhn. red.

[Use of petroleum products on state and collective farms]
Neftekhziaistvo sovkhozov i kolkhozov. Moskva, Sel'khoziz-
dat, 1962. 302 p. (MIRA 15:9)
(Petroleum products) (Fuel) (Lubrication and lubricants)

KOROLENKO, Ivan Ivanovich; VESNA, Nikolay Mitrofanovich; SHKOL'NIKOV,
A.B., red.; PEVZNER, V.I., tekhn.red.

[Aleksandr Gitalov's school] Shkola Aleksandra Gitalova. Moskva,
Gos.izd-vo sel'khoz.lit-ry, 1959. 35 p. (MIRA 13:6)
(Gitalov, Aleksandr Vasil'yevich)
(Kirovograd Province--Socialist competition)

SHATS, Yefim L'vovich; ENTIN, Isaak Arkad'yevich; SHKOL'NIKOV, A.B.,
red.; PEVZNER, V.I., tekhn.red.

[Power equipment of repair and supply stations and state
farms; arrangement, operation, and repair] Energosilovoe oboru-
dovanie PTS i sovkhozov; ustroistvo, ekspluatatsiya i remont.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 351 p. (MIRA 12:8)
(Electric power plants--Equipment and supplies)
(Repair and supply stations) (State farms)

SS APPROVAL BY FEB 1971

GEL'MAN, Boris Mikhaylovich; KRAYEVSKAYA, Ye.K.; MOSKVIN, M.V.; ALISANOV,
B.I.; AL'GIN, B.P.; VOEOLAZHCHENKO, Yu.T.; LEVITANUS, A.D.;
SHKOL'NIKOV, A.B., ed.; BALLOD, A.I., tekhn.red.

[Wheeled diesel tractors] Dizel'nye kolesnye traktory. Moskva,
Gos.izd-vo sel'khoz.lit-ry, 1959. 423 p. (MIRA 13:2)
(Tractors)

ETERLEY, Nikolay Semenovich; POTEKHIN, Aleksey Andreyevich; SHKOL'NIKOV,
A.B., red.; DEYEVA, V.M., tekhn.red.

[Electric machinery] Elektricheskie mashiny. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1960. 299 p. (MIRA 13:6)
(Electric machinery--Study and teaching)

MIKHAYLOVSKIY, Yevgeniy Vasil'yevich; TSIMBALIN, Viktor Borisovich;
SHKOL'NIKOV, A.B., red.; PEVZNER, V.I., tekhn.red.

[Theory of tractors and automobiles] Teoriia traktora i
avtomobilia. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 335 p.
(MIRA 13:11)

(Tractors) (Automobiles)

DOLZHENKOV, A.T., kand.tekhn.nauk, red.; SHKOL'NIKOV, A.B., red.;
GOR'KOVA, Z.D., tekhn.red.

[Training in repairing tractors, motor vehicles, and
agricultural machinery] Praktikum po remontu traktorov,
avtomobilei i sel'skokhozistvennykh mashin. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1960. 431 p.

(MIRA 14:2)

(Tractors--Maintenance and repair)

(Motor vehicles--Maintenance and repair)

(Agricultural machinery--Maintenance and repair)

YATCHENKO, Semen Vasil'yevich; SHKOL'NIKOV, A.B., red.; ZUBRILINA, Z.P.,
tekhn. red.

[Machining on lathes] Tokarnoe delo. Izd.9., perer., dop.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 493 p. (MIRA 13:6)
(Turning)

SAZONOV, N.A.; SHKOL'NIKOV, A.B., red.; PEVZNER, V.I., tekhn.red.

[Manual for rural electricians] Rukovodstvo dlja sel'skogo
elektromontera. Izd.5., perer. i dop. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1960. 532 p. (MIRA 13:12)
(Electricians--Handbooks, manuals, etc.)
(Electricity in agriculture)

GUREVICH, A. M.; SOROKIN, Ye.N.; SHKOL'NIKOV, A.B., red.; GOR'KOVA,
Z.D., tekhn. red.; TRUKHINA, U.N., tekhn. red.

[Tractors and motor vehicles] Traktory i avtomobili. Mo-
skva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961.
567 p. (MIRA 15:3)

(Tractors) (Motor vehicles)

GUDKOV, Aleksandr Nikolayevich, prof., doktor tekhn. nauk;
SHKOL'NIKOV, A.B., red.; BELOVA, N.N., tekhn. red.

[Some problems of mechanization in agriculture] Nekotorye
problemy mekhanizatsii sel'skokhoziaistvennogo proizvodstva.
Moskva, Sel'khozizdat, 1962. 45 p. (MIRA 16:2)
(Agricultural machinery)

OKOROKOV, N.I.; BARANOV, V.V.; SEMENOV, V.M.; SHKOL'NIKOV, A.B.,
red.; GUREVICH, M.M., tekhn. red.

[Farm mechanization and electrification] Mekhanizatsiya i
elektrifikatsiya sel'skogo khoziaistva. Moskva, Sel'khoz-
izdat, 1962. 415 p. (MIRA 15:7)
(Farm mechanization) (Electricity in agriculture)

BLAGOVESHCHENSKIY, Georgiy Viktorovich; SHKOL'NIKOV, A.B., red.;
SOKOLOVA, N.N., tekhn. red.

[Principles of safety and fire prevention technique in
agriculture] Osnovy tekhniki bezopasnosti i protivopo-
zharnoi tekhniki v sel'skom khozaiistve. Moskva, Sel'-
khozizdat, 1963. 279 p. (MIRA 16:10)

(Agriculture—Safety measures)
(Fire prevention)

GUREVICH, A.M.; SOROKIN, Ye.M.; SHKOL'NIKOV, A.B., red.

[Tractors and motor vehicles] Traktory i avtomobili.
Izd.3., ispr. i dop. Moskva, Izd-vo "Kolos," 1964. 543 p.
(MIRA 17:5)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8

LEBEDEV, B.M., kand. tekhn. nauk; PRONIN, V.M., inzh., retsenzent;
SHKOL'NIKOV, A.B., inzh., red.

[Sprinklers; theory and construction] Dozhdieval'nye mashiny;
teoriia i konstruktsii. Moskva, Mashinostroenie, 1965. 254 p.
(MIRA 18:10)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710006-8"

SHKOL'NIKOV, ALEKSANDR DMITRIYEVICH, assistant

Concerning the limits of the application of S.A.C. Chaplygin's theorem to some nonlinear equation of the motion of electromechanical systems. Izv. vys. ucheb. zav.; elektromekh. 4 no.11:3-8 '61.
(MIRA 14:12)

I. Kafedra avtomatizatsii proizvodstvennykh protsessov Leningradskogo gornogo instituta.

(Differential equations)
(Electronic calculating machines)

16.3900
16.6.00

S/044/62/000/006/077/127
B168/B112

AUTHOR: Shkol'nikov, A. D.

TITLE: Use of S. A. Chaplygin's theorem for estimating the error
in values given by analog computers

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 26, abstract
6V134 (Zap. Leningr. gorn. in-ta, v. 45, no. 1, 1961, 60-64)

TEXT: A simple scheme is proposed for the construction, by means of small
analog computers, of functions satisfying the differential inequalities
corresponding to ordinary differential equations. On the basis of lemma 3
and theorem 5 published in RZhMat, 1959, 594, a theorem is derived which
enables to determine from the form of a comparison function (satisfying the
differential inequality) the limit of applicability of Chaplygin's theorem
concerning the differential inequality and to obtain an estimate of the
disposition of the solution of the differential equation by means of analog
computers. [Abstracter's note: Complete translation.] 13

Card 1/1

SHKOL'NIKOV, A.D.

Concerning the application of Chaplygin's theorem. Radiotekh.
i elektron. 7 no.3:576 Mr '62. (MIRA 15:2)
(Electric networks)
(Differential equations)

TEREKHOV, G.A.; SHKOL'NIKOV, A.D.

Electric modeling of periods of the working cycle of a percussion
air drill. Zap. LGI 47 no.1:30-36 '62. (MIRA 16:5)
(Boring machinery--Electromechanical analogies)

SHKOL'NIKOV, A.D.

Computer technique of determining the usefulness of S.A.
Chaplygin's theorem. Zap. LGI 47 no.1:96-99 '62. (MIRA 16:5)
(Inequalities (Mathematics)) (Electronic computers)

GUDKOV, A.V., inzh.; SHKOL'NIKOV, A.D., inzh.

Study of the use of calculating machines in regulating movement
in open-pit haulage. Gor.zhur. no.2:46-48 F '63. (MIRA 16:2)

1. Leningradskiy institut inzhenerov zheleznyodorozhnogo transporta
(for Gudkov). 2. Leningradskiy gornyy institut (for Shkol'nikov).
(Mine railroads) (Calculating machines) (Automatic control)

TEREKHOV, G.A., inzh.; SHKOL'NIKOV, A.D., assistant

Electronic simulation of the working cycle of an air drill. Izv.
vys. ucheb. zav.; gor. zhur. 6 no.4:68-78 '63. (MIRA 16:7)

1. Leningradskiy ordena Lenina i ordena Trudovogo krasnogo
Znameni gornyy institut imeni G.V. Plekhanova. Rekomendovana
kafedroy gornoelektromekhanicheskogo tsikla.
(Boring machinery--Models)

SHKOL'NIKOV, A.D., kand. tekhn. nauk

Industrial testing of the model of a system for the operative
control of strip mine operations. Gor. zhur. no.11:58-61 N '64.
(MIRA 18:2)

1. Leningradskiy gornyy institut.

SHKOL'NIKOV, A.D., kand. tekhn. nauk

The task of drawing up an operative plan, Izv. vys. ucheb. zav.;
gor. zhur. 3 no.2+7-12 '65.

(MIRA 18:5)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni
gornyy institut imeni G.V.Plekhanova.

SILANT'YEV, A.

USSR/Physics - Gamma Radiation

11 Sep 52

"Gamma Radiation of Sb¹²⁴," K. Gromov, B. Dzhelepov, N. Zhukovskiy,
A. Silant'yev, Yu. Khol'nov

"Dok Ak Nauk SSSR" Vol 86, No 2, pp 255-258

By means of the gamma spectrometer that employs the Compton electron, the authors investigate gamma radiation of subject antimony isotope, under conditions similar to those of the investigation of gamma spectra of Co60 and Ag110 in 1951 by the authors. The source of gamma rays was activated metallic antimony in the amt of 0.7 gram. Discuss exptl curve of current strength in an electromagnet versus number of coincidences per unit of time. Submitted by Acad P. I. Lukirskiy 2 Jul 52

235T98

SILANT'YEV, A.

USSR/Physics - Gamma-Spectrum of Br⁸²

21 Jul 52

235T88
"The Gamma-Ray Spectrum of Br<sup>82", B. Dzhelepor, A.
Silent'yev, Radium Inst., Acad Sci USSR.</sup>

"Dok Ak Nauk SSSR" Vol 85, No 3, pp 533-535

Investigates the gamma-ray spectrum of Br⁸² with the aid of the Radium Institute's gamma spectrometer ("ritron"), which was described by B. S. Dzhelepor and M. Ordell ("Dok Ak Nauk SSSR" Vol 62, 615, 1948). Gives a table showing the energy and intensity of the gamma rays of Br⁸² in comparison with foreign results. Acknowledges assistance of

235T88

N. N. Zhukovskiy, Yu. V. Khol'nov, and K. Gromov.
Submitted by Acad P. I. Lukirskiy 14 May 52.

235T88

SHKOL NIKOV, A. S.
and KANTOR, S. A.

"Portable and Economical Instruments for the Radioactive Survey Methods,"
Utilization of Radioactive Isotopes & Emanations in the Petroleum Industry
(Symposium), Min. Petroleum Industry USSR, 1957.

Results of the Joint Session of the Technical Council of Min of the Petroleum
Industry USSR and Soviet Sci and Technical Association, Moscow 14-19 Mar 1956.

SOV/93-58-11-4/15

11(0) AUTHOR: Yerozolimskiy, B.G., Voysik, L.R., Popov, N.V., and Shkol'nikov, A.S.

TITLE: New Oilfield Exploration Methods Employing Pulse Generating Neutron Sources (Novyye metody issledovaniya burovykh skvazhin, osnovannyye na ispol'zovanii impul'snykh neytronnykh istochnikov)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 11, pp 21-28 (USSR)

ABSTRACT: The article notes the development of neutron generators for radioactivity well logging in the Soviet Union and America [Ref 1-4] and analyzes the possible employment of such units in pulse operation as well as the development of new exploration methods based on pulse generating neutron sources which will enable one to study the unsteady processes of neutron and reservoir rock interaction. Understanding of the processes taking place in the medium around the source after its emission of a short pulse of neutrons [Ref 5,6] will make it possible to find the ways of utilizing the pulse method for solving the geophysical problems of oilfields. One of these possible methods is the determination of the formation's porosity and its fluid mineralization by measuring the nonstationary field of thermal neutrons. This requires finding the dependence of the thermal neutron stream on the time which is presented by Fig. 2 as the curve of $n(t)$, where n is the number of thermal neutrons registered by the tracer and t - the time.

Card 1/2

New Oilfield Exploration Methods (Cont.)

sov/93-58-11-4/15

Function $n(t)$ is computed from the theory of diffusion [Ref 7] and expressed by the formula $n(t) = \frac{C}{(Dt)^{3/2}} e^{-\frac{r^2}{4Dt}} + \frac{t}{\tau}$, where D is the

coefficient of neutron diffusion in a medium depending primarily on the reservoir rock's hydrogen content and τ - the life span of the thermal neutrons depending somewhat on the hydrogen content and to a greater extent on the water mineralization due to its chlorine content. Among the other possible new methods that can be developed with impulse generating neutron sources are those which may be based on measuring the slowing down time of the neutrons, as well as on determining which reservoir rock contain carbon by means of inelastic scattering gamma ray spectra [Ref 8-10]. The unit employed in oilfield exploration methods based on pulse generating sources is presented by Fig. 1. There are 2 figures and 10 references, 4 of which are Soviet and 6 English.

Card 2/2

PHASE I BOOK EXPLOITATION SOV/3600

Yedernaya geotekhnika i borotok sterty po ispol'zovaniyu radioaktivnykh izluchenij v radioaktivnoj geologii i geofizike: Collection of Articles on the Use of Radioactive Radiation and Isotopes in Petroleum Geology. Moscow, Gostekhnizdat, 1959. 210 p. Zarya Edit. 4,000 copies printed.

Ed.: V.A. Alakseyev, Professor, Doctor of Geological and Mineralogical Sciences;
Kiev. Ed.: A.P. Ivanterov, Tech. Ed.: A.S. Polotskina.

PURPOSE: This book is intended for petroleum geologists, geophysicists and scientists engaged in geological research who are interested in radiometric techniques of petroleum prospecting.

COVERAGE: The collection contains 28 articles compiled by staff members and experts of the Laboratory for Nuclear Geology and Geophysics of the Petroleum Institute (now the Institute for Geology and Mineral. Fuel Processing) of the Academy of Sciences, the Laboratory for Radiative Logging of the All-Union Scientific Research Institute of Geophysics, and the Institute of Geodesia for planning research projects for petroleum enterprises. The articles treat new material on: radioactive surveying in petroleum geology; seismic radiometric instruments (counters, etc.) for registering neutrons and gamma rays; give the results of research with models of rock strata, introduce fundamental elements of a new method for effectively utilizing radioactivity in the analysis of rock samples from petroleum survey bore holes, etc. Problems of method in the study and interpretation of radiometric measurements in bore holes are reviewed, as well as the results of studies in the nonabsorption of tritium in tracing the movement of petroleum and water in strata. Finally, a new method of surveying based on measuring the radioactivity of the surface of a prospective petroleum deposit is described. No references are mentioned. References accompany each article.

Grushkov, A.P., V.V. Matreyev, O.S. Savenko, and A.D. Schobor. Radiometric Analysis of "Kitecane" and Its Use in Radiometric Oil and Gas Prospecting. 279

Makaryan, K.Y., and A.D. Schobor. Sodification Liquid Radiometer. A New Method for Aerial Prospecting. 290

Gromakov, A.P. Experiment in the Separate Registration of the Thorium and Actinide Components of Gamma Radiation When Probing With Automobile-Mounted Radiometers. 300

Filippov, Yu.M. Some Problems in the Methodology and Theory of the Gamma-Gamma Method. 306

Zolotov, A.T. Effective Cross Sections of Chlorine for Slow Neutrons. 312

Yerofe'yants, B.O., and A.S. Shul'mikov. A Method of Separating Oil- and Water-Bearing Strata, Based on Use of a Pulse Neutron Source. 317

Bogdanov, D.F., and A.I. Ivanterov. A High Voltage Source of 100 kV for Neutron Generators Used in Cased Wells. 346

Terpol'skiy, B.O., L.N. Bondarenko, L.R. Vorotish, Yu. S. Shnitkevich, and L.I. Tulin. A Small-Sized Sealed Neutron Tube. 351

Vorotish, L.R., and B.G. Yerofe'yants. A Laboratory Neutron Generator. 356

AVAILABLE: Library of Congress

SHKOL'NIKOV, A.S.

S/169/61/000/011/027/065
D228/D304

AUTHORS: Alekseyev, F.A., Yerozolimskiy, B.G., Bespalov, D.F., Bondarenko, L.N., Boytsik, L.P., Popov, N.V., Khaustov, A.I., Romanovskiy, V.F., Shimelevich, Yu.S. Shkol'nikov, A.S., and Yudin, L.I.

TITLE: The result of applying neutron impulse methods and apparatus for investigating borehole logs

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 34, abstract 11A304 (V sb. Yadern. geofiz. pri poiskakh polezn. iskopayemykh, M., Gostoptekhizdat, 1960, 3-20)

TEXT: A borehole impulse generator of neutrons is described together with the method of impulse-neutron neutron-logging (INNL). A description is given for the electronic layout of the borehole generator of neutrons and the surface apparatus for impulse neutron logging. During laboratory tests of the generator a stable mean neutron yield of $\sim 2 \times 10^7$ neutr./sec. was obtained at 100 kv. of accelerating voltage in the tube. The impulse duration amounted to 100

Card 1/2

The result of an impulse neutron ...

Ref ID: A674/027/0e5

AUG/20/64

nsec, the transmission frequency being 400 c/s. The neutron generator was used in the commercial testing of INNL. INNL readings against oil-bearing beds exceed by 10 times those for aquiferous beds containing mineralized water, at a delay time of 1000 pusec. Certain impediments and limitations of thermal impulse neutron-logging in different oil- and water-saturated beds are indicated, and the requirements for the apparatus are stated. Further prospects are indicated for the application of impulse neutron generators. [Abstractor's note: Complete translation].

Card 2/2

85464

S/089/60/009/002/019/019/XX
B006/B059

21.7100

AUTHORS: Yerozolimskiy, B. G., Shkol'nikov, A. S., Isakov, A. I.

TITLE: Use of a Pulsed Neutron Source for Investigations in
Petroleum Boreholes

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 2, pp. 144 - 145

TEXT: The present "Letter to the Editor" contains details on theory and results of model experiments with miniature accelerating tubes serving as pulsed neutron sources for radioactive core sampling of boreholes. The simplest method of rock sampling is based upon measurement of the time dependence of thermal neutron density in the rock, i.e., determination of neutron lifetime in the rock. This method is suitable for determining mineral oil or water in a seam. If, for example, a sandy layer contains 20% water with 200g/l of dissolved salts, then the thermal neutron lifetime τ in such a medium is $250 \mu\text{sec}$, and $570 \mu\text{sec}$ if this sandy layer contains 20% of mineral oil. This fact is used to determine the position of an oil-water boundary layer by means of constant neutron sources. In the case of such neutron sources, the measured neutron distribution around

Card 1/4

85464

Use of a Pulsed Neutron Source for
Investigations in Petroleum Boreholes

S/089/60/009/002/019/019/XX
B006/B059

the source is proportional to the lifetime in the medium, whereas in the case of pulsed sources, the measured function $n(t)$ is related to τ by a factor $e^{t/\tau}$, i.e., the relationship between measured quantity and τ is much more distinct than in the case of measurements in a steady field. Measurements with a pulsed neutron source were made on rock-bed models using the methods described in Refs. 1 and 8. Fig. 1 shows the curves of measurements (neutron density versus time) made in borehole models of concrete, sand, paraffin, and salts. A BF_3 filled proportional counter served as a thermal neutron indicator. The pulses from the counter were fed into a 100-channel time analyzer. A deuteron acceleration tube with a tritium target was used as a neutron source (14 Mev), giving 5- μ sec neutron pulses at a frequency of 300 cps. Fig. 2 shows the model with source and counter. The results of the investigation showed that between the "petroleum" and the "water" containing model (sand+paraffin and sand+paraffin+salts, respectively) the recording of the indicator at $t = 800 \mu$ sec differed by the ten-fold. In contrast to this, the usual methods of neutron core sampling show a difference of only 40 to 50%. The difference is in agreement with theoretical estimates. The results

Card 2/4

85464

Use of a Pulsed Neutron Source for
Investigations in Petroleum Boreholes

S/089/60/009/002/019/019/XX
B006/B059

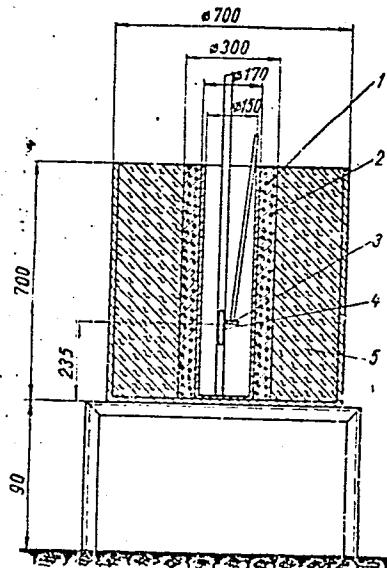
show that this new method is very convenient in determining the water - petroleum boundary. The authors thank G. N. Flerov for discussions and stimulations, as well as I. M. Frank and F. L. Shapiro for assistance. There are 2 figures and 8 references: 5 Soviet and 3 US.

SUBMITTED: July 15, 1959

Card 3/4

85464

S/089/60/009/002/019/019/XX
B006/B059



Legend to Fig. 2: 1 - drive pipe, 2 - cement ring, 3 - target, 4 - counter,
5 - sand+paraffin (and salt) mixture.

Card 4/4

SHKOL'NIKOV, A.S.

Using neutron-neutron pulse logging for determining the water-oil
contact in cased wells. Neft.khoz. 38 no.8:13-19 Ag '60.
(MIRA 13:8)
(Oil well logging, Radiation)

SHKOL'NIKOV, A. S.

Cand Tech Sci - (diss) "Development of the bases of impulse neutron-neutron logging, and methods of its application for differentiation of rocks as to petroleum-water saturation." Novosibirsk, 1961. 19 pp; (Academy of Sciences USSR, Siberian Division, Joint Academic Council for Phys-Math and Tech Sci); 220 copies; price not given; (KL, 10-61 sup, 220)

SHIKUL'NIKOV, A.S.

10-2

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i
yadernykh izlucheniy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom
khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16
aprеля 1960 g. Z. Riga, v 4 tomakh. t. 4: Poiski, razvedka
i razrabotka polozhnykh iskopayemykh (Radioactive Isotopes and
Nuclear Radiation in the National Economy of the USSR; Tran-
sactions on the Symposium Held in Riga, April 12 - 16, 1960, in
4 volumes. v. 4: Prospecting, Surveying, and Mining of Min-
eral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640
copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tehnicheskiy komitet
Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov
SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy;
ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A.
Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

Card 1/11

Radioactive Isotopes and Nuclear (Cont.)

SOV/5592

Tech. Ed.: A. S. Polosina.

PURPOSE : The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tehnicheskiy komitet Sovet Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvennyy komitet Svetla Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

Card 2/11

Radioactive Isotopes and Nuclear (Cont.)

SOV/5592

development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Alekseyev, F. A. Present State and Future Prospects of Applying the Methods of Nuclear Geophysics in Prospecting, Surveying, and Mining of Minerals 5

Bulashovich, Yu. P., G. M. Voskoboinikov, and L. V. Muzyukin. Neutron and Gamma-Ray Logging at Ore and Coal Deposits 19

Gordyev, Yu. I., A. A. Mukher, and D. M. Srebrcdol'skiy. The

Card 3/11

Radioactive Isotopes and Nuclear (Cont.)	SOV/5592
Present State of Radiometric Methods and Their Efficiency in Studying Geological Sections of Petroleum, Gas, Ore, and Coal Boreholes	30
Speranskiy, M. A. Application of Radioactive Methods in the Exploration and Prospecting of Coal Deposits	34
Zaporozhets, V. M., and B. I. Rogov. Radiometric Equipment for the Investigation of Boreholes	40
Mikhayev, G. N., and N. G. Feytel'man. Economic Effect of the Application of Radiometric Methods in Prospecting, Surveying, and Exploitation of Oil and Gas Deposits	47
Alekseyev, F. A., D. F. Bacpalov, B. M. Burcov, B. S. Yerzolimskiy, N. V. Popov, Yu. S. Shimalevich, and A. S. Shkol'nikov. Pulse-Type Neutron Method for Investigating the Geological Sections of Boreholes	55

Card 4/11

AL'FEROV, Fedor A., FEDOROV, D. F., GUMENOV, Yu. S.
SOKOLOVSKY, A. S. and SHURSHAKOV, D. N.

(4)

"The Neutron-neutron Pulse Wall-leaping."

report to be submitted for the Conference on Nuclear Geophysics,
Krakow, Poland, 24-30 Sept 1962.

SHKOL'NIKOV, B.

Courses of development of cooperative societies of the Chuvash
S.S.R. Prom. koop. 12 no.10:6-7 O '58. (MIRA 11:10)

1. Zamestitel' nachal'nika planovo-ekonomicheskogo upravleniya
Rospromsoveta.
(Chuvashia--Cooperative societies)

ZAVALII, Pavlo Volodimirovich; IGOSHKIN, Georgiy Stepanovich
[Igoshkin, H.S.]; SHENDRIK, Lyudmila Karpo ma
[Shendryk, L.K.], red.; SHKOL'NIKOV, B., red.; SHUSTER, A.,
red.

[Get acquainted with the Ukraine] Poznaiomtes' z Ukrainoi".
Kyiv, Mystetstvo, 1964. 1 v. (MIRA 18:10)

SHKOL'NIKOV B. (M.)

Shkol'nikov B., "Use of Automatic Regulators in Drilling for Oil and Gas," Byulletin tekhniko-ekonomiceskoy informatsii [Technical and Economic Information Bulletin], 1953, No 5, Pages 9-10, 1 figure.

SHKOL NIKOV, B.M.

16400* (Automatic Drill Regulator, Type BAR-150.) Buro
voi avtomaticheskii regulator tipa BAR-150. B. M. Shkol'-
nikov and L. I. Sud. Energeticheskiy Biulleten', 1954, no. 7,
July, p. 1-9.

Design and performance of instrument governing maintenance
of given load on drill bit. Diagrams, graphs.

62

(1)

SHKOL'NIKOV, B.M.

AID P - 1661

Subject : USSR/Electricity - Engineering

Card 1/2 Pub. 28 - 1/9

Authors : Sulkanishvili, I. N. and Shkol'nikov, B. M.

Title : On the article "On efficiency of electric drive used
for drilling oil wells" (Published in Energ. byul.,
No.1, 1955)

Periodical : Energ. byul., 2, 1-4, F 1955

Abstract : The authors discuss and minutely analyze the original
article on improvement of drilling oil well machinery,
and make the following suggestions: 1) several
electric drive models should be designed and built for
shallow, deep, and very deep wells instead of the
present two; 2) the hoists and rotary tables should be
operated by a high-voltage electric drive; 3) an
independent drive should be added for auxiliary operation
in lowering and hoisting tools; 4) the hoist and rotary

Energ. byul., 2, 1-4, F 1955

AID P - 1661

Card 2/2 Pub. 28 - 1/19

table drive mechanisms should have electromagnetic couplings; 5) there should be individual electric control equipment at a drilling site; 6) the AC drives should be used for diesel drilling outfits 7) the mud pumps should have a variable-speed drive.

Institution: None

Submitted : No date

SHKOL'NIKOV, B.M.

AID P - 1891

Subject : USSR/Electricity-Engineering

Card 1/1 Pub. 28 - 3/7

Authors : Sulkhanishvili, I. N. and Shkol'nikov, B. M.

Title : Controlled electric drive for mud pumps in turbine
drilling

Periodical : Energ. byul., no.4, 15-20, Ap 1955

Abstract : The authors discuss the problem of obtaining higher
efficiency from an electric drive and mud pump used
in turbine oil drilling. Three practical suggestions
to improve turbine drilling are made. Six diagrams.

Institution: None

Submitted : No date

AID P - 3040

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 27/33

Authors : Shkol'nikov, B. M., Eng. and I. I. Sud

Title : Automatic drilling regulator (Review of technical periodicals)

Periodical : Elektrichestvo, 7, 146-147, Jl 1955

Abstract : The authors summarize data from two Soviet periodicals, and give a description of the regulator with one diagram, 2 Soviet references (1954).

Institution : None

Submitted : No date

SULKHANISHVILLI, I.N.; SHKOL'NIKOV, B.M.

Drilling rig drive with electromagnetic clutches. Energ.biul.
no.2:11-17 F '56. (MLRA 9:5)
(Oil well drilling--Equipment and supplies)

SUD, I.I.; SHKOL'NIKOV, B.M.

New system for controlling the feed of the bit in electric drilling.
Energ.biul.no.3:17-23 '56. (MIRA 9:7)
(Oil well drilling--Equipment and supplies) (Electric controllers)

SHKOL'NIKOV, B.M.; SUD, I.I.

Improved characteristics of bottom electric meters driving the
bit. Energ.biul.no.7:20-24 Jl '56. (MIRA 9:10)
(Electric meters) (Oil well drilling--Equipment and supplies)

Anisbaev, N.I., and G.O. Serebryakov "right to self
determination ~~and~~ ^{the} ~~and~~ ^{by} chisel in drilling wells ~~and~~ ⁱⁿ oil strata."

Alma, 1960. 10 pp. (In: Higher Education USSR. Academy of
Sciences. R&D Institute. Industrial Institute N.I. Anisbaev), 150 copies
(11, 14-15, 16)

AUTHORS: Shkol'nikov, B. M., Engineer, Sud, I. I. 105-58-6-18/33
Engineer

TITLE: Some Properties and the Computation of a Multi-Motor Drive System With a Mechanical Differential (Nekotoryye svoystva i raschet sistemy mnogodvigatel'nogo privoda s mekhanicheskim differentsialom)

PERIODICAL: Elektrichestvo, 1958, Nr 6, pp. 69-74 (USSR)

ABSTRACT: Here the way of computing and selecting the gear ratios of the electric engines of the electric drive are given according to the diagram of connections as shown here, and on the basis of the experience made in the operation, in comparison to other known diagrams of connections. In the diagram of connections shown here one asynchronous motor K with shunted rotor and one d.c. dynamo D drive two driving shafts of the gear. Simultaneously the motor K drives another d.c. dynamo G. The dynamo D and G are coupled according to the diagram of connections generator-motor. Their excitation is independent. The engine K is fed by the alternative-current net. Analogous diagrams of connections are used by the firm "Speed Control" (USA) First the selection of the gear ratio is treated. It is shown that with given load moment M_W at the initial shaft of the gear the value of the load moment at the shaft of the dynamo D,

Card 1/3

Some Properties and the Computation of a Multi-Motor Drive . 105-58-6-18/33
System With a Mechanical Differential

M_D , can be determined with a certain exactness according to the angular factor of this straight line. M_D determines the weight, the dimensions and the costs of the dynamo D. Analogously the section separated from the n_w axis (velocity of the initial shaft of the gear) by this line characterizes the output of the engine K. In the investigation of the reduction factor for the moments of inertia and resistance it is shown that the moments of inertia that are reduced to the differential bridge are reduced to the driving gear wheels by division with the constant factor $k_{drive}^2 = 4$. The moments of resistance are reduced by means of the same factor $k_{drive} = 2$. For the selection of the engine the functional diagram of connection of the drive is used. The formulae necessary for the computation of the moments of the engine are given in tabular form. For the characteristic mechanical properties of the drive in general form the equation (15) is given. The velocity of the driven shaft of the gear is controlled by variations of the excitation in the dynamos G and D. For the efficiency of the gear the equation (16) is given. The advantages of the system as described

Card 2/3

Some Properties and the Computation of a Multi-Motor Drive
System With a Mechanical Differential 105-58-6-18/33

here are: 1) The possibility of obtaining any small rotational speed at the control shaft without increasing the velocity at the driving shaft up to values undesired because of the cooling of the motor. 2) The possibility of reversing the control shaft without reversing the direction of rotation in the electric engines. 3) The possibility of obtaining a wide range for the variation of the speed at the control shaft at a comparatively small range of speed regulation in the electric engines. - Among the disadvantages of such drives are the low efficiency in the operation with characteristic control curves and the comparatively complicated gear construction. There are 3 figures, 2 tables, and 5 references, 4 of which are Soviet.

ASSOCIATION: Giproneftemash Gosplana RSFSR(Giproneftemash Gosplana RSFSR)

SUBMITTED: December 27, 1957

1. Electric motors--Performance 2. Mechanical drives--Design
3. Mechanical drives--Control 4. Mathematics

Card 3/3

AUTHORS:

Shkol'nikov, B.-M., Engineer,
Sud, I. I., Engineer

30V105-58-7-31/32

TITLE:

K. N. Kulizade. "Electric Equipment for Oil Drilling"
(K. N. Kulizade. Elektrooborudovaniye dlya bureniya
neftyanikh skvazhin)

PERIODICAL:

Elektrичество, 1958, Nr 7, pp. 94 - 94 (USSR)

ABSTRACT:

This is a review. Second revised and enlarged edition. 621 pages, price 22.75 Roubles. "Aznefteizdat" publishing house, 1957. The book is intended for students of the department of oil fields at the petroleum institutes. Chapter I - VII: Short history of the development of Soviet electrical equipment in the boring aggregates. General data on electric power. Chapter VIII - XXII: data on the electric equipment of the boring plants, i. e.: chapter VIII: fundamental requirements for electric drives, as well as on the separate drives (table, winch, pumps). Chapter IX: load diagrams of the boring- and hoisting motors. Chapter X, XI, and XII gives a good survey of the calculation formulae for the determination of the power of the electromotor. Chapter XIII: properties and characteristics of Diesel-electric drives of

Card 1/2

K. N. Kulizade, "Electric Equipment for Oil Drilling" 105-58-7-31/32

boring plants and circuits which were worked out in the course of the last years by the Giproneftemash, Uralmashzavod and the TsKB "Elektroprivod". Chapter XIV: demands on the plants for automatic thrust of the cutting head. Chapter XV: electric drill. Chapter XVI - XVIII: description of the control circuit. Chapter XIX: safety devices. Chapter XX - XXI: of the Electric supply circuits and illumination circuits. Chapter XXII: an ingenuous method for the standardization of the electric energy consumption according to the bore hole advance. Enclosure : table of breakdowns and measures for their elimination.

ASSOCIATION: Giproneftemash (Giproneftemash)

1. Drilling machines--Applications 2.. Electrical equipment
--USSR

Card 2/2

ZHEVAGO, Konstantin Aleksandrovich; PORTNOY, Teodor Zinov'yevich;
SHKOL'NIKOV, Bernard Markovich. Prinimal uchastiye SUD, I.I..
MARTYNOVA, M.P., vedushchiy red.; POLOSIHA, A.S., tekhn.red.

[Boring equipment drives] Privod burovyykh ustyanovok. Moskva,
Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960.
(MIRA 13:6)
362 p. (Boring machinery)